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| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>09531-125US1 | Application No.<br>10/524,338 |
| Information Disclosure Statement<br>by Applicant<br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) |  | Applicant<br>Ulrike G. Munderloh      |                               |
|  |  | Filing Date<br>February 11, 2005      | Group Art Unit<br>1645        |

| U.S. Patent Documents |           |                 |                  |                  |       |          |                            |
|-----------------------|-----------|-----------------|------------------|------------------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee         | Class | Subclass | Filing Date If Appropriate |
| /K.M./                | AA        | 3,616,202       | 10/26/71         | Marble           |       |          |                            |
| ↓                     | AB        | 5,869,335       | 02/09/99         | Munderloh et al. |       |          |                            |
| ↓                     | AC        | 5,955,359       | 09/21/99         | Dumler et al.    |       |          |                            |
| ↓                     | AD        | 5,976,860       | 11/02/99         | Coughlin et al.  |       |          |                            |
| ↓                     | AE        | 5,989,848       | 11/23/99         | Dawson           |       |          |                            |
| ↓                     | AF        | 6,284,238       | 09/04/01         | Coughlin et al.  |       |          |                            |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |             |    |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |
|   | AG        |                 |                  |                          |       |          |             |    |
|   | AH        |                 |                  |                          |       |          |             |    |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |   |
|---|-----------|---|
| Examiner Initial  | Desig. ID | Document  |
| /K.M./  | AJ        | Blonin et al., "Persistence of tick-derived <i>Anaplasma marginale</i> in cultured bovine turbinate and endothelial cells," <i>Revue Elev. Méd. vét Pays trop.</i> , 1993, 46:49-56 |
| ↓   | AJ        | Kocan et al., "Immunization of cattle with <i>Anaplasma marginale</i> derived from tick cell culture," <i>Vet. Parasitol.</i> , 2001, 102:151-161                                   |
| ↓   | AK        | Munderloh et al., "Isolation of the Equine Granulocytic Ehrlichiosis Agent, <i>Ehrlichia equi</i> , in Tick Cell Culture," <i>J. Clin. Microbiol.</i> , 1996, 34(3):664-670         |
| ↓   | AL        | Munderloh et al., "Invasion and Intracellular Development of the Human Granulocytic Ehrlichiosis Agent in Tick Cell Culture," <i>J. Clin. Microbiol.</i> , 1999, 37(8):2518-2524    |
| ↓   | AM        | Waghela et al., "In vitro cultivation of <i>Anaplasma marginale</i> in bovine erythrocytes co-cultured with endothelial cells," <i>Vet. Parasitol.</i> , 1997, 73:43-52             |

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| Examiner Signature<br>/Kerima Maasho/  | Date Considered<br>07/12/2007 |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                               |

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| U.S. Patent Documents |           |                 |                  |          |       |          |                            |
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|                       | AA        |                 |                  |          |       |          |                            |
|                       | AB        |                 |                  |          |       |          |                            |
|                       | AC        |                 |                  |          |       |          |                            |
|                       | AD        |                 |                  |          |       |          |                            |
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| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |
|   | AF        |                 |                  |                          |       |          |             |    |
|   | AG        |                 |                  |                          |       |          |             |    |
|   | AH        |                 |                  |                          |       |          |             |    |
|   | AI        |                 |                  |                          |       |          |             |    |
|   | AJ        |                 |                  |                          |       |          |             |    |

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|---|-----------|---|
| Examiner Initial  | Desig. ID | Document  |
| /K.M./<br>↓<br>↓  | AK        | Munderloh et al., "Establishment of the Tick (Acari: Ixodidae)-Borne Cattle Pathogen <i>Anaplasma Marginale</i> (Rickettsiales: Anaplasmataceae) In Tick Cell Culture," <i>J. Med. Entomol.</i> , 1996, 33(4):656-664       |
|   | AL        | Munderloh et al., "Infection of endothelial cells with <i>Anaplasma marginale</i> and <i>A. phagocytophilum</i> ," <i>Vet. Microbiol.</i> , 2004, 101:53-64   |
|   | AM        | Mutunga et al., "Nitric Oxide is Produced by <i>Cowdria ruminantium</i> -Infected Bovine Pulmonary Endothelial Cells In Vitro and Is Stimulated by Gamma Interferon," <i>Infection and Immunity</i> , 1998, 66(5):2115-2121 |
|   | AN        |   |

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| Examiner Signature<br>/Kerima Maasho/  | Date Considered<br>07/13/2007 |
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